Date: May 2000

To: D. A. Isom

Copy No.: 145a

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Document No.: DOE/RL-88-21

Title: HANFORD FACILITY DANGEROUS WASTE

PART A PERMIT APPLICATION

Revision Release No.: Revision 26

MSIN:

H6-08

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Section Number and Title		Remov	е		Insert	
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EDMC

Please update your manual with the attached pages, sign, date, and return this sheet. document, please return the document, with this sheet, to the address below.	If you no longe	r require the
Name: Debbi bom	Date: 6	19/00

Environmental Services G1-26

B8-21 Part A



DOE/RL-88-21 Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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Facility

Evaporation Basins

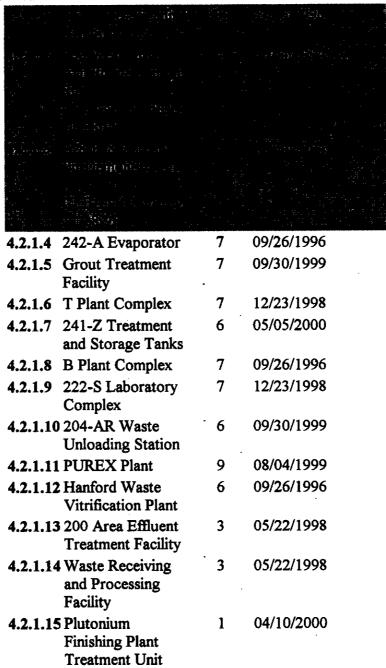
HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

Percolation Pond



4.2 200 AREA FACILITIES

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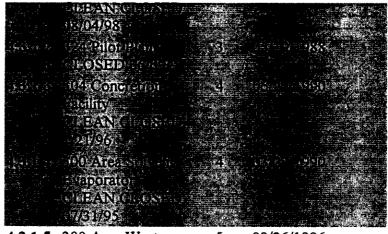
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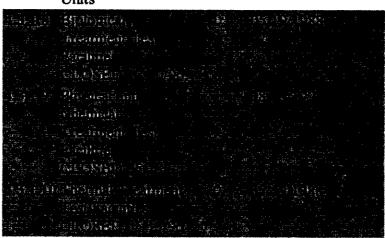
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(a) (1996) - (a) (

09/26/1996

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Landfill

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^{* =} A New Revision Is Pending And Is Not Available Yet.

DECLARACIE

This information has been formatted to be Internet viewable and is a fascimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

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2.0 PERMITTING STATUS FOR DANGEROUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL UNITS

Shaded lines inidicate closed TSD units.

Unit	Co-op	Area ²	Unit Type T=treatment S=storage D=disposal	Waste Type M=mixed D=dangerous	Unit classification 3	Document type ⁴					
		100 /									
1324-N Surface Impoundment	BHI	100	Т	D	7						
DESCRIPTION SHOWS THE RESULTS	1141	1,4									
1706-KE Waste Treatment System	FH	100	TS	М	3, 13						
183-H Solar Evaporation Basins	BHI	100	TS	M	3, 4						
1301-N Liquid Waste Disposal Facility	BHI	100	D	M	11						
1325-N Liquid Waste Disposal Facility	вні	100	D	D	11						
1324-NA Percolation Pond	BHI	100	TD	D	8, 13						
acini Mare											
		200 A	reas .								
na via propositio Na via propositioni succession succes			9.74								
-A Evaporator	FH	200E	TS	M ·	3, 4						
Grout Treatment Facility	CHG	200E	TSD	M	3, 4, 7, 11						
T Plant Complex	FH	200E	TS	M	1, 2, 3, 4, 10, 13						
241-Z Treatment and Storage Tanks	FH	200W	TS	M	3, 4						
B Plant Complex	FH	200E	TS	M	1, 3, 4, 10						
222-S Laboratory Complex	FH	200W	TS	M	1, 2, 3, 4						
204-AR Waste Unloading Station	CHG	200E	T	M	4						
PUREX Plant	FH	200E	TS	М	3, 4, 10						
Hanford Waste Vitrification Plant	DOE	200E	TS	М	1, 3, 4, 12, 13						
200 Area Effluent Treatment Facility	FH	200E	TS	M	1, 3, 4						
Waste Receiving and Processing Facility	FH	200W	TS	M	1, 2						
Plutonium Finishing Plant Treatment Unit	FH	200W	Т	M	2						
NEW SECOND SECOND											
Double-Shell Tank System	CHG	200EW	TS	M	3, 4	***************************************					
Hexone Storage and Treatment Facility	вні	200W	TS	M	1, 3, 4						
aranda (56-bayana Sasaya Salaba)											
PUREX Storage Tunnels	FH	200E	S ·	M	12						
224-T Transuranic Waste Storage and Assay	FH	200W	S	М	1						
Atral Waste Complex	FH	200W	TS	M	1, 2						
Single-Shell Tank System	CHG	200EW	TS	. M	3, 4, 5						
207-A South Retention Basin	FH	200E	S	M	6						
Liquid Effluent Retention Facility	FH	200E	TS	M	6, 7						

an into a place) wideStury . 1,2,15

]	Part A		Document				RCRA Permit	Date
Unit	Initial	Latest	Rev.	Туре	Date	Doc#	Rev	Location	closed
				100 Area				· 	
1324-N Surface Impoundment	08/01/86	6/30/94	3	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 18	
					i	979.233.223.5		2,75,116	
1706-KE Waste Treatment System	08/01/86	9/26/96	3						
183-H Solar Evaporation Basins	11/01/85	6/30/94	4	Postclosure Plan	06/30/97	DOE/RL-97-48	0	Part 6, Chapter 2	•
1301-N Liquid Waste Disposal Facility	08/01/86	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 17	
1325-N Liquid Waste Disposal Facility	02/01/87	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 16	
1324-NA Percolation Pond	08/01/86	6/30/94	3	Closure Plan	05/01/96 ·	DOE/RL-96-39	0	Part 5, Chapter 19	
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				200 Areas			·		
A Transporter	311111111111111111111111111111111111111		10.00 10.00	angsing (inco	11, 2	English and State Co		Park S	
11.1.50 (2011) 12.100 (2015)		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1							a
242-A Evaporator	9/1/87	9/26/96	7	Part B	07/01/97	DOE/RL-90-42	1	Part 3, Chapter 5	
Grout Treatment Facility	9/1/87	12/21/99	7	Part B	07/24/92	DOE/RL-88-27	2		
T Plant Complex	12/01/87	12/23/98	7	Part B	12/19/95	DOE/RL-95-36	0		
241-Z Treatment and Storage Tanks	12/1/87	5/5/00	6	Closure Plan	12/31/96	DOE/RL-96-82	0		
B Plant Complex	12/1/87	8/26/99	7	Preclosure Work Plan	02/27/98	DOE/RL-98-12	0		
222-S Laboratory Complex	11/25/87	12/23/98	7	Part B	12/21/91	DOE/RL-91-27	0		
204-AR Waste Unloading Station	12/1/87	12/21/99	6						
PUREX Plant	12/1/87	8/4/99	9	Preclosure Work Plan	06/30/95	DOE/RL-95-78	0		

Part B

Part B

Part B

10/31/91 DOE/RL-89-02

07/01/97 DOE/RL-97-03

05/22/98 DOE/RL-91-16

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Part 3,

Chapter 4

Hanford Waste Vitrification

^ Area Effluent Treatment

Waste Receiving and

Plutonium Finishing Plant

Processing Facility

Treatment Unit

Plant

ility

5/1/88

06/26/91

1/25/95

12/23/98

9/30/99

5/22/98

6/28/99

4/10/00

6

3

3 .

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Double-Shell Tank System 9/187 12/1/99 10 Part B 08/28/91 DOE/RL-90-39 0	ensission versioning	11/1/85			rec:	0/07/92		3A	Part f	0.002003
**Storage and atment Pacility		HIS SHAPE		10	Doet D	08/28/01	DOE/B1 -00-30			
### Purple		9/1/6/		10					,	
PUREX Storage Tunnels 12/1/87 9/26/96 6 Part B 06/30/92 DOE/RL-90-24 4 Chapter 3 Capter 3 12/1/87 9/26/96 6 Part B 06/30/92 DOE/RL-91-51 0 Doef RL-91-51 0 Doef RL-91-51 0 Doef RL-91-51 Doef RL-9		12/1/87	6/30/94	3	Closure Plan	11/24/92	DOE/RL-92-40	0		
PUREX Storage Tunnels										
Storage and Assay Facility 12/18/ 9/6/96 6 Part B 05/30/92 DOE/RL-91-17 1	PUREX Storage Tunnels	12/1/87	9/26/96	5	Part B	04/14/97	DOE/RL-90-24	4	,	
Single-Shell Tank System 21/88 12/21/99 6 Closure Plan 09/30/89 Draft		12/1/87	9/26/96	6	Part B	06/30/92	DOE/RL-91-51	0		
207-A South Retention Basin	Central Waste Complex	5/1/88	6/28/99	6	Part B	05/22/98	DOE/RL-91-17	1		
Liquid Effluent Retention	Single-Shell Tank System	2/1/88	12/21/99	6	Closure Plan	09/30/89	<u></u>	Draft		
Facility 27.690 57.2198 6 Part B 07.0197 DOE/RL-97.43 0 Chapter 4 241-CX Tank System 07.10/90 6/30/94 3	207-A South Retention Basin	2/26/90	9/26/96	2						,
Waste Encapsulation and Storage Pacility 12/19/97 12/19/97 0		2/26/90	5/22/98	6	Part B	07/01/97	DOE/RL-97-03	0		·
Storage Facility 12/19/97 12/19/97 0	241-CX Tank System	07/10/90	6/30/94	3						
Low-Level Burial Grounds 11/1/85 12/23/98 11 Part B 07/31/97 DOE/RL-88-20 1 216-S-10 Pond and Ditch 02/01/87 6/30/94 3		12/19/97	12/19/97	0						
216-S-10 Pond and Ditch 220-187	IHLW Interim Storage Unit	06/28/99	6/28/99	0						
A-29 Ditch	Low-Level Burial Grounds	11/1/85	12/23/98	11	Part B	0 7 /31/97	DOE/RL-88-20	1		
-A-29 Ditch	216-S-10 Pond and Ditch	02/01/87	6/30/94	3						
216-B-3 Main Pond	and the second	1437-1445-15 1437-1445-15	1146	7. 1	21665jpr-1714ri	(2-7/6) (2/2)	97.07.37,41.38.3.3			
216-B-63 Trench	-A-29 Ditch	08/01/86	6/30/94	3						
216-A-10 Crib	216-B-3 Main Pond	08/01/86	3/30/00	6						
216-U-12 Crib	216-B-63 Trench	08/01/86	9/26/96	3						
216-A-37-1 Crib	216-A-10 Crib	08/01/87	6/30/94	3						
216-A-37-1 Crib	216-U-12 Crib	08/01/87	6/30/94	3		•				
300 Area ***TENTIAL PRODUCT 1141185 27578 4 1141185 114	216-A-36B Crib	02/01/88		1						
300 Area 10 Alcal Miles Miles	216-A-37-1 Crib	02/26/90	6/30/94	2	S a	W. V			6 W. 28 46 224 48 - 68 - 12 6 2 4 1	· · · · · · · · · · · · · · · · · · ·
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					300 Area					
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300 Area Waste Acid Treatment System 09/01/87 9/26/96 5 Closure Plan 03/31/96 DOE/RL-90-11 1 303-M Oxide Facility 05/01/88 9/26/96 1 3 Hazardous Waste Treatment Units 05/19/88 6/30/97 4 Part B 06/30/97 DOE/RL-92-35 1 Part 3, Chapter 6		3	**************************************			***************************************	1		(2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
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300 Area Waste Acid Treatment System 09/01/87 9/26/96 5 Closure Plan 03/31/96 DOE/RL-90-11 1 303-M Oxide Facility 05/01/88 9/26/96 1 3Hazardous Waste Treatment Units 05/19/88 6/30/97 4 Part B 06/30/97 DOE/RL-92-35 1 Part 3, Chapter 6	222 C. S. S. C. L. S. C. L. S. C.					\$. e (20) i 27 (40) - 14 (41) i i			
303-M Oxide Facility 05/01/88 9/26/96 1		09/01/87	9/26/96	5	Closure Plan	03/31/96	DOE/RL-90-11	1	State of the state	
3 Hazardous Waste Treatment Units 05/19/88 6/30/97 4 Part B 06/30/97 DOE/RL-92-35 1 Part 3, Chapter 6		05/01/88	9/26/96	1				 		
Britispall Regional 198	ن Hazardous Waste			-	Part B	06/30/97	DOE/RL-92-35	1		
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ermitting Status - RCRA I	Dangerou	is waste A	ybbiic	ation Permit 8	8-21 Part	A.			Page 5 of
		Y		-					
								8	
. Tanks		11/16/87	1	Closure Plan	03/31/96	DOE/RL-90-11	1		<u> </u>
303-K Storage Facility	08/01/87	9/26/96	5	Closure Plan	12/17/93	DOE/RL-90-04	2	Part 5, Chapter 14	
305-B Storage Facility	05/19/88	12/20/90	1	Part B	04/30/92		2	Part 3, Chapter 2	
19. Cr. (9. 3. 331)									
300 Area Process Trenches	11/01/85	5/25/95	4	Closure Plan	5/25/95		4	Part 6, Chapter 1	
				400 Area					
437 Maintenance and Storage Facility	11/1/85	9/26/96	3						
	\$6. Y. 12	, , , , , ,			77.191.7	2,0)12 (61,210-2			\$
Sodium Storage Facility and Sodium Reaction Facility	05/01/95	9/26/96	1						
				600 Area	•				
Bandar Patrabata Bandan Bandara Banda	,	1.5.		100000000000000000000000000000000000000	A 1.14.11.	3 17 - 2 2			17.77.67.0
616 Nonradioactive Dangerous Waste Storage Facility	11/01/85	3/4/97	7	Part B	10/31/91	DOE/RL-89-03	2	Part 3, Chapter 1	
Area Purgewater Storage and Treatment Facility	02/20/90	9/11/98	3						
Nonradioactive Dangerous Waste Landfill	11/1/85	6/30/94	4	Closure Plan	09/30/90	DOE/RL-90-17	0		
				3000 Area					<u>.</u> .
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Milestone M-45-06

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BHI
                            -- Bechtel Hanford, Inc.
<sup>1</sup> Co-op
                    CHG
                            -- CH2M HILL Hanford Group, Inc.
                    FH
                            -- Fluor Hanford, Inc.
                    PNNL -- Pacific Northwest National Laboratory.
                            -- U. S. Department of Energy, Richland Operations Office
                    RL
                    Other -- Closed by a previous co-operator.
<sup>2</sup> Area
                    100
                            -- 100 Area
                    200E
                            - 200 East Area
                    200W -- 200 West Area
                    200EW -- Parts of a TSD unit are located in both the 200 East and the 200 West Areas
                    300
                            -- 300 Area
                    400
                            -- 400 Area
                    500
                            -- Unused designation
                    600
                            -- 600 Area
                    3000
                            - 3000 Area
<sup>3</sup> Unit classification 1
                            -- Container - Storage
                            -- Container - Treatment
                    3
                            -- Tank - Storage
                    4
                            -- Tank - Treatment
                    5
                            -- Waste pile
                    6
                            -- Surface impoundment - Storage
                    7
                             -- Surface impoundment - Treatment
                    8
                             - Surface impoundment - Disposal
                    9
                             -- Incinerator
                    10
                             -- Containment Building
                    11
                             -- Landfill
                    12
                             -- Miscellaneous - Storage
                    13
                             -- Miscellaneous - Treatment
                    14
                             -- Land treatment
                    15
                             -- Certified clean closure; regulatory acceptance letter received.
                    16
                             - Certified procedural closure; regulatory acceptance letter received.
                    17
                             -- Certified partial clean closure, regulatory acceptance letter received.
<sup>4</sup> Document type
                    1
                             -- Part B
                    2
                             -- Closure plan
                    3
                             -- Partial closure
                    4
                             -- Postclosure plan
                    5
                             -- Closure work plan
                    6
                             -- Undetermined
                    7
                             - TSD unit being closed, or anticipated to be closed, under Section 8.0 of the Hanford Federal Facility
                               Agreement and Consent Order (Tri-Party Agreement)
                             -- Procedural closure in accordance with Section 6.3.3 of the Tri-Party Agreement or in response to
                    8
                               withdrawal requests submitted in fulfillment of Tri-Party Agreement Milestone M-20-45
                             - To be designated as a TSD unit if the Fast Flux Test Facility sodium is determined to have no beneficial
                    10
                             -- Interim status TSD unit to be closed in accordance with the Purgewater Management Plan [Attachment 5
                               of the HF RCRA Permit (DW Portion)]
                    11
                             -- TSD unit subject to the closure work plan/closure plan process in accordance with Tri-Party Agreement
```

- 12 -- Interim status TSD unit in a standby mode
- -- Interim status TSD unit is to be superseded by a high-level waste immobilization facility.



For questions or comments, contact Mike Cline at michael_w_cline@rl.gov Last updated: 12/21/1999 2:51 PM Return to the Hanford home page.

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Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e. 12 character/inch).

DOE/RL-88-21 241-Z Treatment and Storage Tanks Rev. 6, 5/5/00

ORM		DΔN	ICE	ROUS W	A QTE D	EDMIT /		ATION		Marian Company of the	E I.D. NUMBER	1
3			IÇE:	(000 11,	MOILI	ELIMIT A	AFFLIV	AHOR		MV	90008987	
FOR OFFICE	1	RECEIVE	:n I	and the same of th		TARREST MANAGEMENT OF THE PARTY			at attacky and government of the contract of t			
APPROVE		, day, & yr.	1	######################################			COM	MENTS				
II. FIRST OF			***************************************									
I.D. Number	Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above. A. FIRST APPLICATION (place an "X" below and provide the appropriate date)											
A. FIRST AP	PLICATION EXISTING	I (place an FACILITY	"X" belo	(See instruction Complete Item	ns for definition below.)	n of "existing" f	•	2. NEW F	ACILITY (C	omplete item b	elow)	
MO. DAY YEAR 03 22 1943				DATE (mo., da THE DATE CO (use the boxes *The date cons commenced.	y, & yr.) OPEI NSTRUCTIOI to the left) struction of the	N COMMENCE Hanford Facilit	N OR D	MO. DAY	YEAR	THE DATE, (ACILITIES, PROVID MO., day, & yr.) BEGAN OR IS TO BEGIN	ÞΕ
双 1.	FACILITY I	HAS AN IN	ITERIM S	elow and compl STATUS PERMI	ete Section I a IT	ibove)		烈 2. F	ACILITY H	AS A FINAL PI	ERMIT	
III. PROCES	at the same team one or other parties are parties and page					***************************************		~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
				13 - 14 2 1 7 14 1		5.54						

	A BROOFES	B. PROCESS DESIGN CAPACIT	Υ					
LINE IUMBER	(specify)		2. UNIT OF MEASURE (enter code)					
	103	<u> </u>	G G	ling.				
1	S02	69,300	L					
2	T01	16,277	V					
3	NAME OF THE PROPERTY OF THE PR							
4								
5					<u> </u>			
6	•							
7								
8	and the second s							
9								
10					- 1			

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

S02

The 241-Z Treatment and Storage Tanks (241-Z) support the Plutonium Finishing Plant (PFP), which was constructed in November 1948. The 241-Z consists of storage tanks D-4, D-5, D-7, D-8, and an overflow tank. Tanks D-5 and D-8 also serve as the waste treatment tanks. These tanks, located in the belowground portion of the 241-Z Building, have the combined storage capacity of 69,300 liters (18,307 gallons). Tanks D-4 and D-5 each have a capacity of 16,400 liters (4,332 gallons), while tanks D-7 and D-8 each have a capacity of 17,900 liters (4,729 gallons). The overflow tank, located in the D-7 Vault, has a capacity of 700 liters (185 gallons) and is in place to serve only in a capacity for receiving waste that might overflow from one of the other tanks. The overflow tank is not in place to serve as storage capacity for dangerous waste. The 241-Z accumulates and stores mixed waste generated from PFP process activities. Once treated, the waste is stored before final transfer to the Double-Shell Tank (DST) System. The original construction of 241-Z included a fifth 16,400 liter (4,332 gallon) tank that also is located in the belowground portion of the facility. Tank D-6 was taken out of service and isolated from the 241-Z tank sysyem in 1972 and never stored dangerous waste. The purpose of identifying tank D-6 is to note its existence within the 241-Z Building, but not to include it with the tank system covered by the Part A, Form 3, for the 241-Z. The maximum process design capacity for tank storage is 69,300 liters (18,307 gallons).

T01

Treatment that occurs in the tanks D-5 and D-8 consists of a batch process that includes the addition of sodium hydroxide or potassium hydroxide, sodium nitrate, ferric nitrate, and water. The sodium hydroxide is added to adjust the pH of the waste to make the waste more amenable for transfer to the DST System. Ferric nitrate solution is added to provide 1 percent stable solids for transfer to the DST System, while water is could be used to adjust the plutonium concentration of the waste to be transferred so that the waste meets the DST System criteria for acceptance. This treatment process makes the waste more amenable for transfer to the DST System. The maximum process design capacity for the tank treatment is 16,277 liters per day (4,300 gallons per day).

		DANGEROUS WASTES		***************************************			
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L	A. DANGEROUS		C, UNIT			Layrence const.	D. PROCESSES
I N	WASTE NO.	B. ESTIMATED ANNUAL QUANTITY OF WASTE	MEA- SURE	4	. PROCESS COD	ES	2. PROCESS DESCRIPTION
E.	(enter code)		(enter code)	'	(enter)	•	(if a code is not entered in D(1))
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	1011 (5163.31)	:,;;					
	\$						
	2.62						Toutment - Teek
1	D002	1,360,777	K	T01 ↓	<u> </u>		Treatment - Tank
3	D004 D005		4	→			-
4	D006		4	¥			+
5	D007	PANAMUS UNIVERSITY	4	Ψ			<u> </u>
	D008		4	4			<u> </u>
7	D009		Ψ.	+			4
8	D010		<u> </u>	↓			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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10	D019		1	L	11_		

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D006		· +		
D007	. ↓	· +		▼
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D009	4	/ 4		↓
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D011	Ψ.	/ 		V
D019	+	, 		—
WT01	Ψ	, 		*
WT02	↓	, 4		Included With Above
USE THIS SPACE TO LIST AT	e 241-Z from PFP process a lge, modeling, and some proc	ctivities co	d be assigned one or more	3. of the following dangerous waste numbers as determine corrosive (D002), and/or toxic for arsenic (D004), bariur (D0), silver (D011), or carbon tetrachloride (D019). Depe

V. FACILITY DRAWING	Refer to attached	l drawing(s).
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All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS Refer to attached photograph(s).

xisting facilities must include photographs (arial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of include photographs (areas) areas (see instructions for more detail).

	d on the attached drawing(s) and photograph(s).
LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)

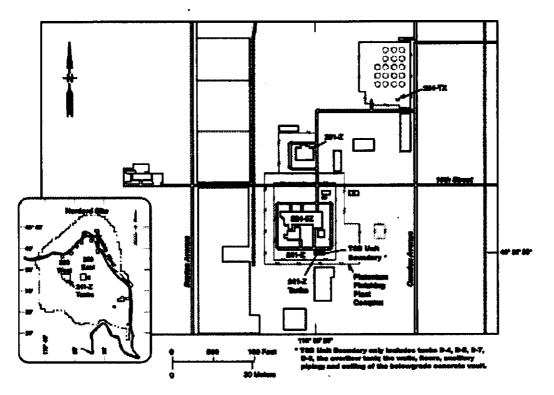
FACILITY OWNER					
A. If the facility owner is also the facility operator as listed below. B. If the facility owner is not the facility operator as listed.	in Section VII on Form 1, "General Information", place an "X in Section VII on Form 1, complete the following Items:	(" in the box to	o the left and skip to Section IX		
1. NAME OF FAC	ILITY'S LEGAL OWNER		2. PHONE NO. (area code & no.)		
3, STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE		
IX. OWNER CERTIFICATION					
I certify under penalty of law that I have personally examined inquiry of those individuals immediately responsible for obtain there are significant penalties for submitting false information.	ing the information, I believe that the submitted information k	s true, accura	te, and complete. I am aware that		
NAME (print or type)	SIGNATURE	DATE SIGN	ED		
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office					
X. OPERATOR CERTIFICATION					
I certify under penalty of law that I have personally examined inquiry of those individuals immediately responsible for obtain there are significant penalties for submitting false information,	ing the information, I believe that the submitted information i	i attached doo s true, accure	cuments, and that based on my ite, and complete. I am aware that		
NAME (print or type)	SIGNATURE	DATE SIGN	ED		
SEE ATTACHMENT					

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

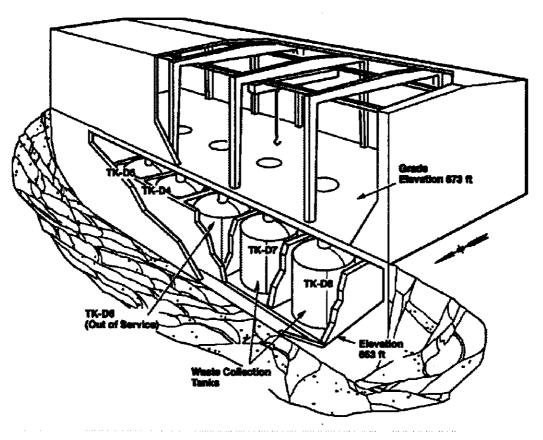
Keith A. Klein	<u>5/5/00</u>		
Owner/Operator	Date		
Keith A. Klein, Manager			
U.S. Department of Energy	•		
Richland Operations Office			
D. B. Van Leuven	4/10/00		
Co-Operator	Date		
R. D. Hanson,			
President and Chief Executive Officer			
Fluor Daniel Hanford, Inc.	•		

241-Z Treatment and Storage Tanks Site plan



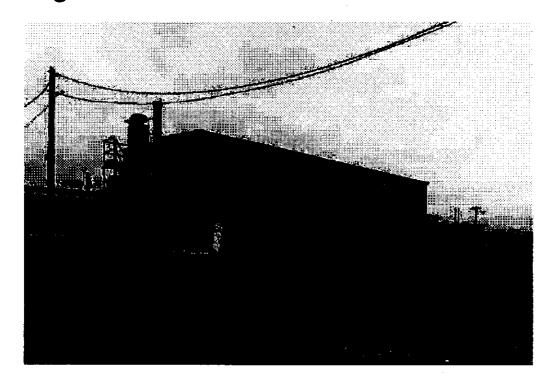
H96070161.5

241-Z Building Cutaway View



H96060058.5

241-Z Building



46°32'58" 119°38'20"

8706219-5CN PHOTO TAKEN 1987) Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e. 12 character/inch).

DOE/RL-88-21 PUREX Plant Rev. 9, 8/4/99

FORM 3		DA	NGE	EROUS WASTE PERMIT APPLICATION LEPASTATE D. NUMBER WA7890008967							
FOR OFFIC	IAL U	SE ONLY									
APPLICAT APPROV			TE RECEIVED COMMENTS								
						,					
II. FIRST O	R RE\	/ISED APPLIC	ATION								
application.	If this	appropriate be is your first app ction I above.	ox in A or dication a	B below (mark one box only) ond you already know your faci	to indicate whether this is t lity's EPA/STATE I.D. Nur	the first application you are subm nber, or if this is a revised applic	itting for your facility or a revised stion, enter your facility's EPA/STATE				
		ATION (place STING FACILI		low and provide the appropriat (See instructions for defini Complete Item below.)		2. NEW FACILITY (C	Complete Item below)				
MO. DAY YEAR 03 22 1943				*FOR EXISTING FACILITI DATE (mo., dey, & yr.) OF THE DATE CONSTRUCTI (use the boxes to the left) *The date construction of t commenced.	PERATION BEGAN OR ON COMMENCED The Hanford Facility	MO. DAY YEAR	FOR NEW FACILITIES, PROVIDE THE DATE, (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN				
B. REVISEI	D APF	LICATION (pla ILITY HAS AN	IOO AN "X INTERIN	" below and complete Section II STATUS PERMIT	I above)	2. FACILITY H	AS A FINAL PERMIT				
		ODES AND C									

UKEXI	Plant, Kev. 9	·			1.0	50 2			
	4 5500500	B. PROCESS DESIGN CAPACITY							
LINE NUMBER A. PROCESS CODE (from list above)		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)						
			5						
	17.								
1	T01	392,000	V						
2	S02	1,263,233	L	aut					
3	S06	430	С			<u> </u>			
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7									
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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The Plutonium-Uranium Extraction (PUREX) Plant, constructed in 1956, is located in the southeast corner of the 200 East Area. The PUREX Plant was used for the recovery of uranium and plutonium from irradiated reactor fuel. Liquid processes were used to separate the plutonium and uranium. The PUREX Plant consists of the 202-A Building and various support structures. The 202-A Building is a reinforced concrete structure 306.3 meters long, 36.3 meters wide (at its maximum), and 30.5 meters high with approximately 12.2 meters of the height below grade. The 202-A Building consists of three main structural components: (1) a thick-walled, concrete canyon containing remotely operated process equipment (in cells below grade); (2) the pipe and operating, sample, and storage galleries; and (3) an annex that included offices, process control rooms, laboratories, and building services.

TO1 and S02 are used to indicate a historical use of the tanks for storage and treatment. The tanks once used in this process have been drained and flushed and are awaiting final disposition.

SO2 reverences vessels that are permitted to store mixed waste. The PUREX Plant Vessel Table (page-Shelow) includes the tank identification numbers, tank locations, and tank capacities for the permitted tanks. The total process design capacity for tank storage was 1,263,233 liters.

SO6 is used to indicate a containment building subject to the requirements of 40 CFR 265, Subpart DD as prescribed in WAC-173-400 interim status facility standards. A steel open top skid containing concrete chips from the floor of E-Cell is stored in F-Cell. The solid mixed waste in the canyon could consist of contaminated discarded canyon process equipment, jumpers (or isolated components thereof) or other material from the various onsite sources.

Treatment and storage capacities are provided to reflect past operations. Current and/or future PUREX Plant activities do not propose utilization of treatment or storage capacity beyond what has been agreed to for the facility transition purposes under Section 8 of the Hanford Federal Facility Agreement and Consent Order.

PUREX PLANT VESSEL TABLE

ESSEL ID	LOCATION	CAPACITY (LITERS)		
TK-D5	D Cell	19,851		
TK-E5	E Cell	19,873		
TK-E6	E Cell	19,813		
TK-F3	F Cell	19,964		
TK-F4	F Cell	19,593		
T-F5	F Cell	1,132		
E-F11	F Cell	9,804		
TK-F15	F Cell	19,419		
TK-F16	F Cell	19,870		
TK-F18	F Cell	19,798		
TK-G1	G Cell	18,662		
TK-G2	G Cell	7,064		
T-G2	G Cell	8,248		
TK-G5	G Cell	55,403		
TK-G7	G Cell	50,827		
TK-G8	G Cell	19,881		
TK-H1	H Cell	19,593		
T-H2	H Cell	7,003		
E-H4	H Cell	10,137		
TK-J1	J Cell	19,926		
TK-J3	J Cell	19,911		
T-J6	J Cell	6,057		
T-J7	J Cell	6,730		
TK-J21	J Cell	1,162		
T-J22	J Cell	568		
T-J23	J Cell	393		
TK-K1	K Cell	19,828		
T-K2	K Cell	5,194		
T-K3	K Cell	6,507		
TK-K6	K Cell	19,593		
T-L2	L Cell	447		
TK-L3	L Cell	488		
T-L4	L Cell	139		
TK-M2	M Cell	6,852		
		81		
-TK-Q21	Q Cell AMU	968		
TK-Q22	R Cell	18,121		
TK-R1		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
TK-R2	R Cell	6,748		
T-R2	R Cell	8,282 35 174		
TK-R7	R Cell	35,174		
TK-U3	U Cell	31,124		
TK-U4	U Cell	31,184		
TK-P4	203-A	402,930		
TK-40	211-A	247,360		
TK-156	AMU	1,533		
Total 1	Capacity	1,263,233		

IV.	ESCRIPTION O	F DANGEROUS WASTES							
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L	A.	•	C. UNIT					D. PROCESSES	
IN	DANGEROUS WASTE NO.	B. ESTIMATED ANNUAL	MEA-						
NO E		QUANTITY OF WASTE	SURE (enter	1	. PROCES	SS CODE: (fer)	S	2. PROCESS DESCRIPTION (If a code is not entered in D(1))	
	(enter code)	#Top (grant 1 ##ho) a sa taga ta a ppenj (na ppenj hypo (hypo () a sa ta a) (peny) a h	code)		•	F-11-4-11-12-7	- 192-1113-1113		100564
				77					
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		2.2.2.2.2		***************************************				Name and Association	
1	WT01	C	K	T01	802			Process is not used.*	
	4	eve been listed to indicate a historic				nd storage	<u>.</u>		
2	WT02		₩	₩	4			. ↓	
3	WP01		4	Ψ.	4			1 •	
4	WP02		4		Ψ			↓	
	D001		4	¥	Ψ.			<u> </u>	
6	D002		₩.	+	, •			<u> </u>	
7	D003	opospoje o popa na ser nesama su mano mano na sepue e na masama estape e	1	↓	 			1	
8	D004 D005		V	¥	¥		<u> </u>	<u> </u>	
	1 ,000		1 <u> </u>	1		l	<u> </u>		

رند کار	A Piant, Ke	v. <i>3</i>				Page 3 c
10	D008		4	Ψ	Ψ]	· · · · · · · · · · · · · · · · · · ·
11	D007		\	₩	+	₩ ₩
12	D008		. ↓	₩	Ψ	→
13	D009		₩	₩	Ψ.	
	D010		. ↓	₩	₩ .	→
	D011		. ↓	₩	4	Included With Above
16	WT01	15,200	К	S06		Storage in a containment building
17	WT02		. ↓	₩		─
18	D005		Ψ	₩		<u> </u>
19	D006			4		→
20	D007		\	₩		
21	D008		. ↓	₩		
22	D010		₩	₩		
23	D011			Ψ.		Included With Above
24						
25					Ī	
26		The state of the s				
27						
28			dikir ikidali gipin german yang men			
29						
30						
. USE	THIS SPACE T	O LIST ADDITIONAL PRO	CESS CODES	FROM SI	ECTION D) ON PAGE 3.

ACILITY DRAWING	Refer to	attached	drawing(s).
------------------------	----------	----------	-------------

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (arial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

	LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)		
ĺ				

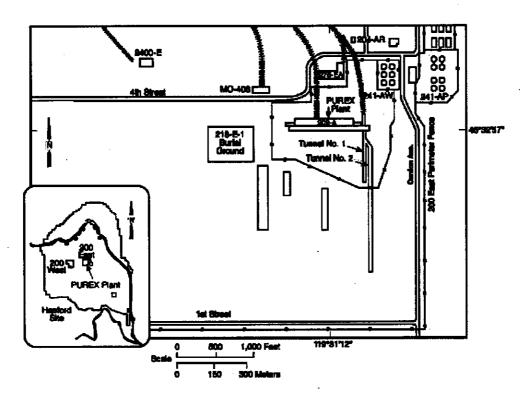
TVIII. FACILITY OWNER						
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and sldp to Section IX below. B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:						
1. NAME OF FACI	2. PHONE NO. (area code & no.)					
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST. 8. ZIP CODE				
IX. OWNER CERTIFICATION						
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.						
NAME (print or type)	SIGNATURE	DATE SIGNED				
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	08/04/1999				
X. OPERATOR CERTIFICATION						
I certify under penalty of lew that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.						
NAME (print or type)	SIGNATURE	DATE SIGNED				
SEE ATTACHMENT	·					

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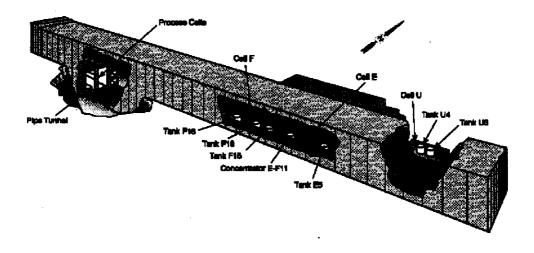
Keith A. Klein	8/4/99	
Owner/Operator	Date	
Keith A. Klein, Manager		
U.S. Department of Energy		
Richland Operations Office		
	•	
S. D. Liedle	7/21/99	
Co-Operator	Date	
S. D. Liedle, President		
Bechtel Hanford, Inc.	•	

PUREX Plant Site Plan



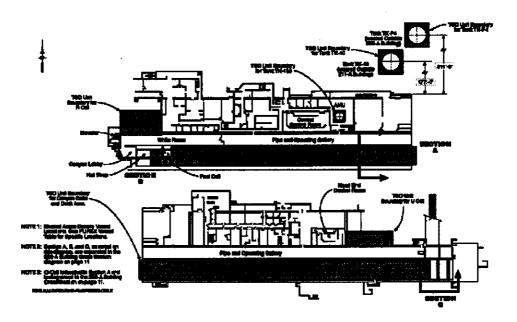
E9809W

PUREX Plant Cutaway View (202-A Building)



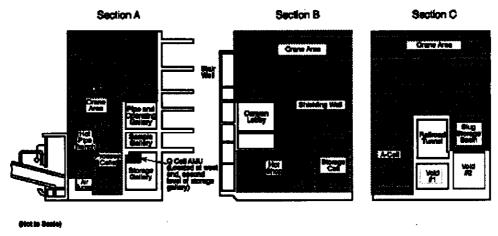
E9809075.2W

202-A Building Floor Plans



E9810002W 10/22/98

202-A BUILDING SECTION VIEWS



Note: Sheded politions densite areas that are within the TSO boundary.

E9809075.1W

PUREX PLANT (AERIAL VIEW)

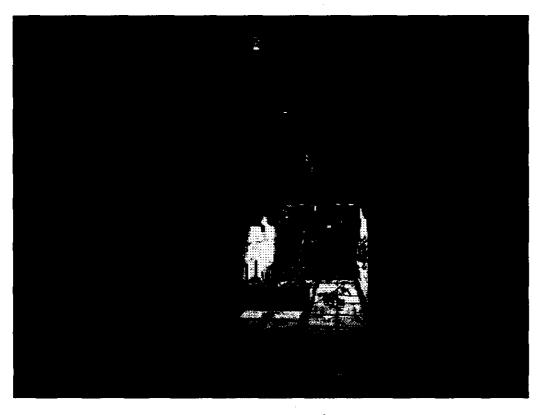


46^o32'57" 119^o31'12" 97060044-12CN (PHOTO TAKEN 1997)

HISTORICAL PHOTO CONSISTENT WITH CURRENT APPEARANCE

INTERIOR CANYON

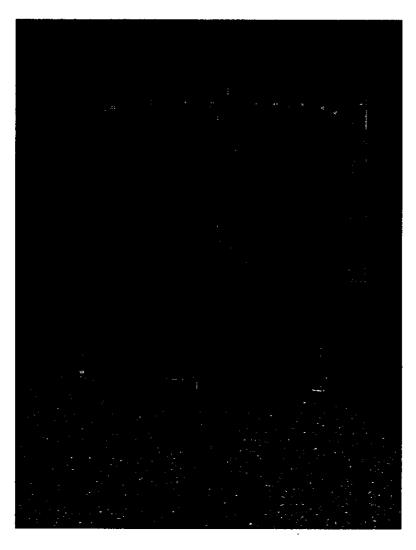
VIEW FROM WEST TO EAST



60478-4CN (PHOTO TAKEN 1973)

HISTORICAL PHOTO CONSISTENT WITH CURRENT APPEARANCE

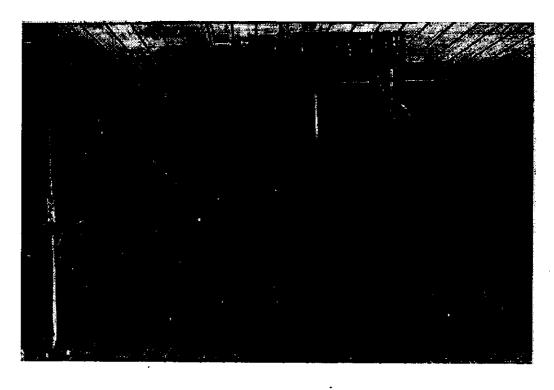
STANDARD 18,927-LITER TANK (TYPICAL OF E5, F15, F16, AND F18)



8706243-5CN (PHOTO TAKEN 1987)

TANK E5

Pipe Trench Wall - Top View



46^o32'57" 119^o31'12" 09948-38CN (PHOTO TAKEN 1982)

TANK F15 AND TANK F16

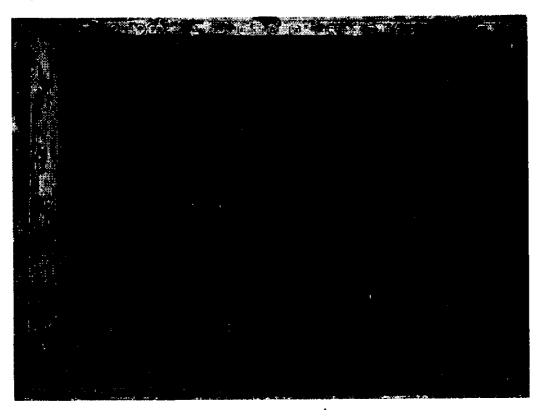
Pipe Trench Wall - Top View



46°32'57" 119°31'12" 099948-71CN (PHOTO TAKEN 1982)

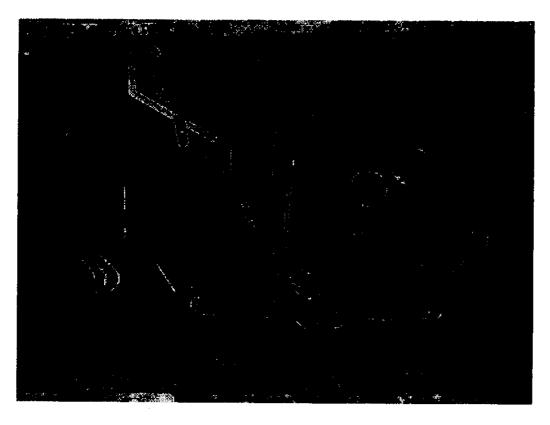
TANK F18

Pipe Trench Wall - Top View



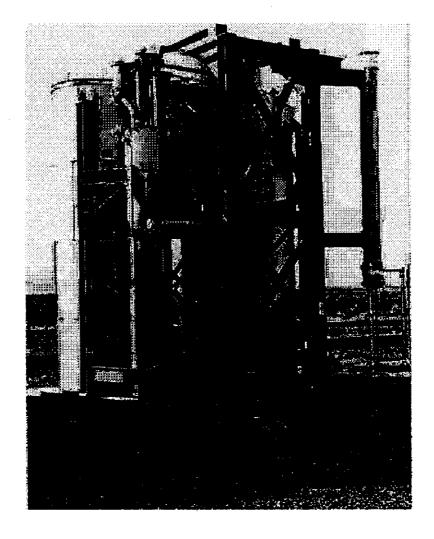
46^o32'57" 119^o31'12" 099948-74CN (PHOTO TAKEN 1982)

F-CELL LOOKING DOWN



99948-48CN (PHOTO TAKEN 1982)

E-F11 CONCENTRATOR



8706243-8CN (PHOTO TAKEN 1987)

E-F11 CONCENTRATOR

Pipe Trench Wall - Top View



46^o32'57" 119^o31'12" 099948-64CN (PHOTO TAKEN 1982)

U CELL Top of Tank U3 (Typical of Tank U4)



46°32'57" 119^o31'12" 92102839-10CN (PHOTO TAKEN 1992)

U CELL

Bottom of Tanks

Tank U3

Tank U4



46°32'57" 119°31'12" 92102839-7CN (PHOTO TAKEN 1992) HISTORICAL PHOTO CONSISTENT WITH CURRENT APPEARANCE Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e. 12 character/inch).

DOE/RL-88-21
Plutonium Finishing Plant Treatment Unit
Rev. 1. 4/10/00

· Personal Services	ire apaced for ente type, i.e			17. ev. 1, 4/10/00
3	DANG	EROUS WASTE PERMIT	APPLICATION	I. EPASTATE I.D. NUMBER W A 7 8 9 0 0 8 9 6 7
FOR OFFICI	AL USE ONLY			
APPLICATION APPROVE			COMMENTS	
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I.D. Number	this is your first application in Section I above.	or B below (mark one box only) to indicate whether and you already know your facility's EPA/STATE	er this is the first application you are subm E I.D. Number, or if this is a revised applic	nitting for your facility or a revised sation, enter your facility's EPA/STATE
A. FIRST AP	PLICATION (place an "X" I EXISTING FACILITY	below and provide the appropriate date) (See instructions for definition of "existing" in Complete Item below.)	facility. 2. NEW FACILITY (Complete item below)
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- 1		Treatment Offit, Rev. 1		Page 2 o		
LINE CO	A PROCESS	B. PROCESS DESIGN CAPACITY	•			
	A. PROCESS CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY		
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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The Plutonium Finishing Plant (PFP) Treatment Unit is located in the 200 West Area and supports PFP, which was constructed in 1948. The cementation process first started in October 1996 and operations ceased in December 1996.

<u>T04</u>

Treatment of mixed waste at the 234-5Z Building occurs in glovebox HA-20MB located in Room 235B. This glovebox (HA-20MB) measures approximately 4.7 meters (15 feet 6 inches) long by 1.5 meters (4 feet 10 inches) wide by 1.6 meters (5 feet 3 inches) high. Varying forms of mixed waste are treated in HA-20MB using a cementation process. The cementation process is performed by mixing a standard cement material with appropriate amounts of the mixed waste and water to form a slurry that will solidify into a chemically stable material. Following mixing, the slurry is placed in approximately 3-liter (0.8-gallon) billet cans for solidification in glovebox HA-20MB.

When treatment operations resume, the maximum process design capacity for mixed waste treatment in HA-20MB will be 100 liters (26 gallons) per day.

IV.	ESCRIPTION C	F DANGEROUS WASTES						
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lutonium Finishing Pla	ınt Treatı	ment Unit, Rev. 1		Pa			
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E. USE THIS SPACE TO LIST	ADDITIONA	L PROCESS CODES FROM	SECTION D(1) ON P	AGE 3.			
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V. FACILITY DRAWING RE	for to att	ached drawing(s)				AMERICAN I Marketon by Chillian Book of	

All existing facilities must include			drawing of the facility (see instructions for n	nore detail).		
VI. PHOTOGRAPHS Refe	r to attacl	hed photograph(s).					
All existing facilities must includ future storage, treatment or disp	e photograph: osal areas (s	s (arial or ground-level) that se instructions for more deta	clearly delineate all existil).	ting structures; existi	ng storage, tr	satment a	nd disposal areas; and sites of
VII. FACILITY GEOGRAPHIC	LOCATION	This information is	s provided on th	e attached dra	wing(s) a	nd pho	otograph(s).
. LATITUD	existing facilities must include photographs (<i>erial or ground-level</i>) that clearly de ure storage, treatment or disposal areas (<i>see instructions for more detail</i>). FACILITY GEOGRAPHIC LOCATION This information is provi-				DE (degrees,	minutes,	& seconds)
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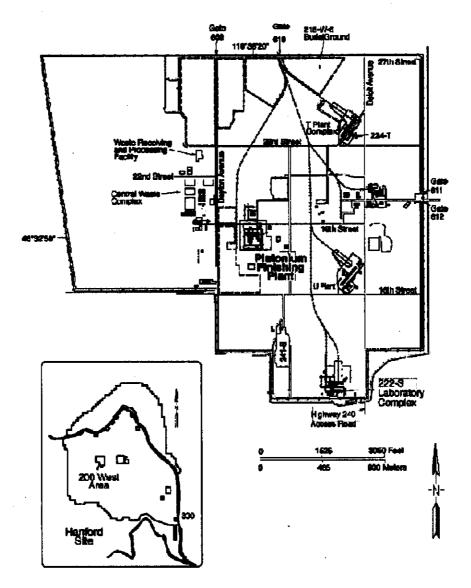
FACILITY OWNER	dandalasan asan akadaka makadaka kadaka kada kada kada				
A. If the facility owner is also the facility operator as listed below. B. If the facility owner is not the facility operator as listed in the facility operator as listed in the facility operator.	in Section VII on Form 1, "General Information", place an "> n Section VII on Form 1, complete the following Items:	(" in the box	to the left and skip to Section IX		
1. NAME OF FACI	ILITY'S LEGAL OWNER		2. PHONE NO. (eree code & no.)		
		<u>I</u>			
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE		
IX. OWNER CERTIFICATION					
I certify under penalty of law that I have personally examined a inquiry of those individuals immediately responsible for obtaining there are significant penalties for submitting false information,	ng the information, I believe that the submitted information is				
NAME (print or type)	SIGNATURE	DATE SIGNED			
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	04/10/2000	·		
X. OPERATOR CERTIFICATION					
I certify under penalty of law that I have personally examined a inquiry of those individuals immediately responsible for obtaining there are significant penalties for submitting false information,	ng the information, I believe that the submitted information is				
NAME (print or type)	SIGNATURE	DATE SIG	NED		
SEE ATTACHMENT					

X. OPERATOR CERTIFICATION

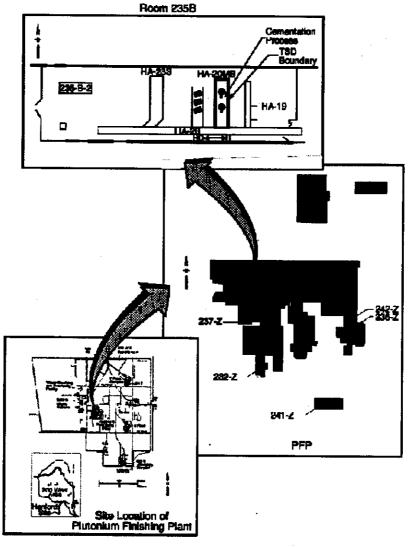
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Keith A. Klein Owner/Operator Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	<u>4/10/00</u> Date	
D. B. Van Leuven for Co-Operator Ron D. Hanson President and Chief Executive Officer Fluor Hanford	3/27/00 Date	

200 West Area Site Plan



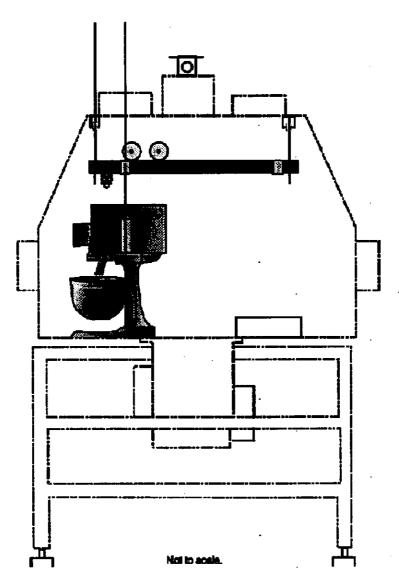
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TSD = treatment, storage, and/or disposal

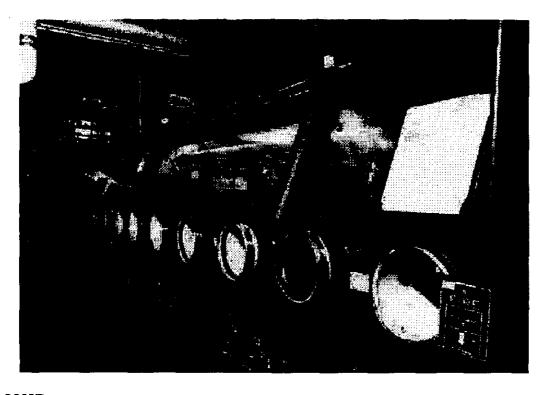
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Glovebox HA-20MB



H97050154.1R1W

Room 235B Cementation Treatment Process Area



Glovebox HA-20MB 46°32'58" 119°38'20"

98030268-29CN (PHOTO TAKEN 1998)

Pangarous Waste Permit Application 88-21 Part A



DOE/RL-88-21 Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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3.1.1 FORM 1 - FDH

3.1.2 FORM 1 - PNL 1

3.1.3 FORM 1 - BHI 0

3.1.4 FORM 1 - CHG

- 4.0 FORM 3 DANGEROUS WASTE PERMIT APPLICATION
 - 4.1 100 AREA FACILITIES
 - 4.1.1 Treatment Facilities

4.1.1.1 1324-N Surface 3 06/30/1994 Impoundment



3

4.1.1.3 1706-KE Waste 3 09/26/1996 Treatment System

4.1.1.4 183-H Solar 4 06/30/1994 Evaporation Basins

4.1.2 Disposal Facilities

4.1.2.1 1301-N Liquid 7 02/25/1997
Waste Disposal
Facility
4.1.2.2 1325-N Liquid 7 02/25/1997

4.1.2.2 1325-N Liquid 7 02/25/1997 Waste Disposal

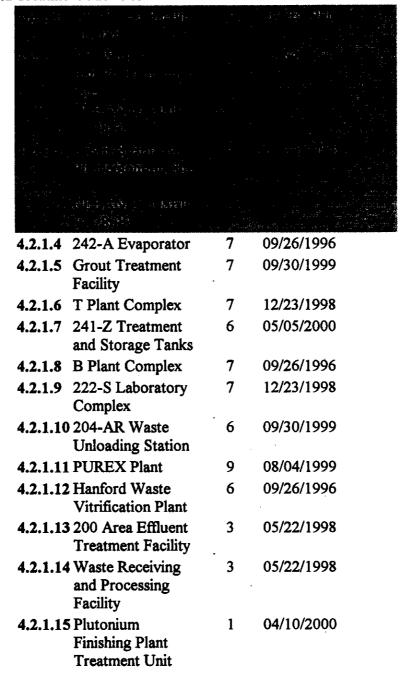
Facility

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

Percolation Pond

4.2 200 AREA FACILITIES

4.2.1 Treatment Facilities



4.2.2 Storage Facilities

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4.2.2.2	Double-Shell Tank System	10	09/30/1999					
4.2.2.3	Hexone Storage and Treatment Facility	. 3	06/30/1994					

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4.2.2.5	PUREX Storage	5	09/26/1996
1,2,2,0	Tunnels		
4.2.2.6	224-T Transuranic Waste Storage and Assay Facility	6	09/26/1996
4.2.2.7	Central Waste Complex	6	05/22/1998
4.2.2.8	Single-Shell Tank System	6	12/21/1999
4.2.2.9	207-A South Retention Basin	. 2	09/26/1996
4.2.2.10	Liquid Effluent Retention Facility	6 .	05/22/1998
4.2.2.11	241-CX Tank System	3	06/30/1994
4.2.2.12	Waste Encapsulation and	0	12/19/1997
4.2.2.13	Storage Facility IHLW Interim Storage Unit	0 .	06/28/1999
4.2.3 Disposa	l Facilities		
-	Low-Level Burial Grounds	11	12/23/1998
4.2.3.2	216-S-10 Pond and Ditch	. 3	06/30/1994
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4.2.3.4	216-A-29 Ditch	3	06/30/1994
4.2.3.5	216-B-3 Main Pond	. 6	03/30/2000
4.2.3.6	216-B-63 Trench	3	09/26/1996
4.2.3.7	216-A-10 Crib	3	06/30/1994
4.2.3.8	216-U-12 Crib	3	06/30/1994
4.2.3.9	216-A-36B Crib	1	06/30/1994
4.2.3.10	216-A-37-1 Crib	2	06/30/1994
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4.3 300 AREA FACILITIES

4.3.1 Treatment Facilities

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- 4.3.1.5 300 Area Waste 5 09/26/1996 Acid Treatment System
- **4.3.1.6** 303-M Oxide 1 09/26/1996 Facility
- **4.3.1.7** 325 Hazardous 4 06/30/1997 Waste Treatment Units



4.3.2 Storage Facilities

- **4.3.2.1** 311 Tanks 1 11/16/1987 **4.3.2.2** 303-K Storage 5 09/26/1996 Facility 5 09/26/1996
- **4.3.2.3** 305-B Storage 1 12/20/1990 Facility



4.3.3 Disposal Facilities

- **4.3.3.1** 300 Area Process 4 05/25/1995 Trenches
- 4.4 400 AREA FACILITIES
 - 4.4.1 Treatment Facilities
 - **4.4.1.1** 437 Maintenance 3 09/26/1996 and Storage Facility



4.4.2.2 Sodium Storage
Facility and
Sodium Reaction
Facility

4.5 600 AREA FACILITIES

4.5.1 Treatment Facilities



4.5.2 Storage Facilities

4.5.2.1 616 7 03/04/1997
Nonradioactive
Dangerous Waste
Storage Facility

4.5.2.2 600 Area 3 09/11/1998
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Storage and
Treatment Facility

4.5.3 Disposal Facilities

4.5.3.1 Nonradioactive 4 06/30/1994
Dangerous Waste
Landfill

4.6 1100 AREA FACILITIES

4.6.1 Treatment Facilities



^{* =} A New Revision Is Pending And Is Not Available Yet.

D) (SIM B) VIVIERS

This information has been formatted to be Internet viewable and is a fascimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

Page 6 of 6

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov Last updated: 12/21/1999 2:51 PM Return to the Hanford home page.

Maintained by FH

DOE/RL-88-21 216-B-3 Main Pond

Please print or type in the unshaded areas only

Rev. 6, 3/30/00 (fill-in areas are spaced for elite type, i.e. 12 character/inch). EPA/STATE I.D. NUMBER ORM **DANGEROUS WASTE PERMIT APPLICATION** W A 7 8 9 0 0 0 8 9 6 7 FOR OFFICIAL USE ONLY APPLICATION DATE RECEIVED COMMENTS **APPROVED** (mo., day, & yr.) II. FIRST OR REVISED APPLICATION Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above. A. FIRST APPLICATION (place an "X" below and provide the appropriate date) 2. NEW FACILITY (Complete Item below) 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete Item below.) FOR NEW FACILITIES, PROVIDE *FOR EXISTING FACILITIES, PROVIDE THE YEAR MO. YEAR THE DATE, (mo., day, & yr.) DATE (mo., day, & yr.) OPERATION BEGAN OR OPERATION BEGAN OR IS 03 1943 THE DATE CONSTRUCTION COMMENCED **EXPECTED TO BEGIN** (use the boxes to the left) The date construction of the Hanford Facility commenced. B. REVISED APPLICATION (place an "X" below and complete Section I above) 2. FACILITY HAS A FINAL PERMIT 1. FACILITY HAS AN INTERIM STATUS PERMIT III. PROCESS - CODES AND CAPACITIES

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	B. PROCESS DESIGN CAPACITY								
LINE NUMBER	- above)	. 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY					
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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

T02, D84

The 216-B-3 Main Pond (Main Pond) was used from 4/1945 to 5/1992. The 216-B-3 Main Pond consists of the 216-B-3 Pond and 216-B-3-3 Ditch. The 216-B-3 Pond, which began service in 1945, currently covers an area of 14 hectares (35 acres) to a depth of .71 to 2.4 meters (2 to 8 feet). The 216-B-3 Pond received effluent from the 216-B-3-3 Ditch, which was excavated in 1970 to replace an earlier ditch. The 216-B-3-3 Ditch is approximately 1.128 meters (3,700 feet) long, 9.1 meters (30 feet) wide at ground level, 1.8 meters (6 feet) wide at the bottom, and 1.2 to 2.4 meters (4 to 8 feet) deep. The 216-B-3-3 Ditch received most of its dangerous waste from the 216-B-29 Ditch, which drained the Plutonium Uranium Extraction (PUREX) Plant chemical sewer line. The 216-A-29 Ditch discharged to the 216-B-3-3 Ditch approximately 460 meters (1,500 feet) west of the 216-B-3 Pond. The 216-A-29 Ditch was shut down and interim stabilized in July 1991.

The Main Pond receives waste water (primarily process and colling water) from the PUREX Plant, the B Plant Complex, the 242-A Evaporator, and other 200 East Area units. The Main Pond received corrosive waste as a result of the regeneration of PUREX Plant demineralizer columns (D84). Treatment of the waste occurred by the successive discharge of acidic and caustic waste, which served to neutralize the corrosivity of the waste before and upon reaching the Main Pond. Residual corrosivity was neutralized by the calcareous nature of the Main Pond soil (T02).

The process design capacities given for waste process codes T02 [3,180,000 liters (840,000 gallons) per day] and D84 [3,180,000 liters (840,000 gallons) per day] represent Main Pond's proportional share (based on percolation capacity) of the process design capacity of the entire B Pond System (which includes the 216-B-3 Expansion Ponds, a separate dangerous waste treatment and disposal unit). At the peak of operations, approximately 83,280,000 liters(22,000,000 gallons) per day of liquid were discharged to the entire 216-B-3 Pond System. Interim stabalization of the 216-B-3 Main Pond began in February 1994. The 216-B-3 Main Pond has been permanently isolated from all liquid effluent sources and will be closed under interim status.

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E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The Main Pond received dangerous waste from two primary sources: (1) corrosive and toxic dangerous waste resulting from the regeneration of demineralizer columns at the PUREX Plant, and (2) spills of dangerous or mixed waste at the PUREX Plant. Backwash from the regeneration of the demineralizer columns was frequently corrosive (D002) and sometimes contained toxic concentrations of chemicals used in the regeneration process, including nitric acid, sulfuric acid, sodium hydroxide, and potassium hydroxide (WT02). Spills at the PUREX Plant included hydrazine (U133), cadmium nitrate (WT01/D006), and ammonium fluoride/ammonium nitrate (WT01). Since 1984, administrative and engineering barriers have been put in place at the PUREX Plant to prevent dangerous waste from being discharged into the Main Pond.

The quantity of waste listed for D002/WT02 is an estimated annual quantity based on the Main Pond's proportional share (based on percolation capacity) of the amount of corrosive and toxic waste received by the entire 216-B-3 Pond System (which includes the 216-B-3 Expansion Ponds, a separate dangerous waste treatment and disposal unit). The quantities of waste listed for U133 and WT01/D006 represent the Main Pond's proportional share (based on percolation capacity) of the total recorded amount of hydrazine, cadmium, and ammonium fluoride/ammonium nitrate received by the entire 216-B-3 Pond System from the time the PUREX Plant resumed operations in 1983 until the last known chemical discharge in 1987.

The quantities of waste listed for U133 and WT01/D006 include the water in which the chemicals were discharged. Water makes up most of the weight of these discharges.

/. FACILITY DRAWING	Refer to	attached	drawing(s).	
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All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

#### VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (arial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)

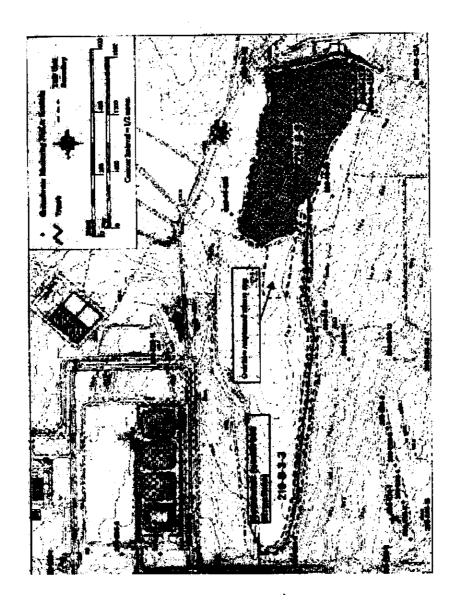
FACILITY OWNER					
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.  B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:					
1. NAME OF FACILITY'S LEGAL OWNER 2. PHONE NO. (area code & r.			2. PHONE NO. (area code & no.		
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE		
IX. OWNER CERTIFICATION	<u></u>				
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.					
NAME (print or type)	SIGNATURE	DATE SIG	NED		
Kelth A. Klein, Manager U.S. Department of Energy Richland Operations Office	Robert M. Rosselli	03/30/2000			
X. OPERATOR CERTIFICATION					
I certify under penelty of lew that I have personally exemined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.					
NAME (print or type)	SIGNATURE	DATE SIG	NED		
SÉE ATTACHMENT		·			

#### X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

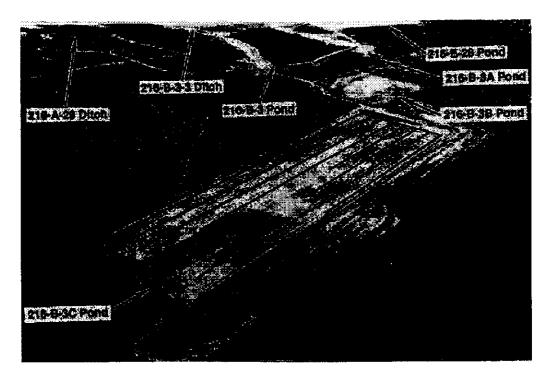
Robert M. Rosselli	3/30/00
Owner/Operator	Date
Keith A. Klein, Manager	
U.S. Department of Energy	
Richland Operations Office	
Michael C. Hughes	3/9/00
Co-Operator	Date
Michael C. Hughes, President	Dato
Bechtel Hanford, Inc.	

## 216-B-3 Main Pond



699-42-42A

### **216-B-3 MAIN POND**



46°33'38.522" 46°33'23.420" 119°30'16.016" 119°29'32.703"

93110825-1CN (PHOTO TAKEN 1993)

## Dangerous Waste Carnit Application



DOE/RL-88-21 Contents

#### HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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2.0 PERMITTING STATUS FOR DANGEROUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL UNITS

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3.1.1 FORM 1 - FDH

3

3.1.2 FORM 1 - PNL

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3.1.3 FORM 1 - BHI

0

3.1.4 FORM 1 - CHG

4.0 FORM 3 - DANGEROUS WASTE PERMIT APPLICATION

#### 100 AREA FACILITIES

#### **4.1.1** Treatment Facilities

**4.1.1.1** 1324-N Surface Impoundment

06/30/1994



4.1.1.3 1706-KE Waste

3 09/26/1996

Treatment System

**4.1.1.4** 183-H Solar

4 06/30/1994

**Evaporation Basins** 

#### 4.1.2 Disposal Facilities

**4.1.2.1** 1301-N Liquid

02/25/1997

7

Waste Disposal

Facility

**4.1.2.2** 1325-N Liquid

7 02/25/1997

Waste Disposal

Facility

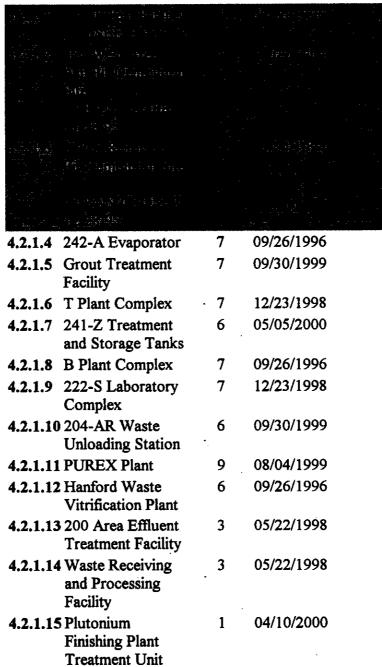
### HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

#### **Percolation Pond**

# ONE POSITION OF THE STATE OF TH

#### 4.2 200 AREA FACILITIES

#### 4.2.1 Treatment Facilities



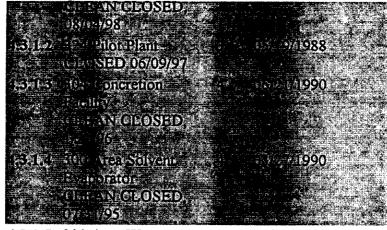
#### 4.2.2 Storage Facilities

4.2.2.2	Double-Shell Tank System	k 10	09/30/1999	
4.2.2.3	Hexone Storage and Treatment Facility		06/30/1994	

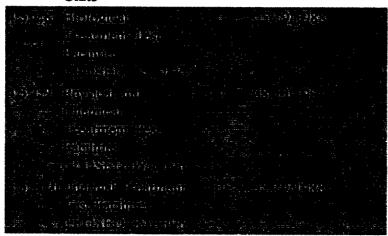
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4.2.2.5	PUREX Storage	5	09/26/1996
4.2.2.6	Tunnels 224-T Transuranic Waste Storage and Assay Facility	6	09/26/1996
4.2.2.7	Central Waste Complex	6	05/22/1998
4.2.2.8	Single-Shell Tank System	6	12/21/1999
4.2.2.9	207-A South Retention Basin	2	09/26/1996
4.2.2.10	Liquid Effluent Retention Facility	6	05/22/1998
4.2.2.11	241-CX Tank System	3	06/30/1994
4.2.2.12	Waste Encapsulation and Storage Facility		12/19/1997
4.2.2.13	IHLW Interim Storage Unit	0	06/28/1999
4.2.3 Disposa	l Facilities		
4.2.3.1	Low-Level Burial Grounds	11	12/23/1998
4.2.3.2	216-S-10 Pond and Ditch	. 3	06/30/1994
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	216-A-29 Ditch	3	06/30/1994
4.2.3.5	216-B-3 Main Pond		03/30/2000
4.2.3.6	216-B-63 Trench	3	09/26/1996
4.2.3.7	216-A-10 Crib	3	06/30/1994
4.2.3.8	216-U-12 Crib	3	06/30/1994
4.2.3.9	216-A-36B Crib	1	06/30/1994
4.2.3.10	216-A-37-1 Crib	2	06/30/1994
And the second	Latiner Daniele († Bruss Park okazonek		
300 AREA F	ACILITIES		

#### 4.3 300 AREA FACILITIES

#### 4.3.1 Treatment Facilities



- **4.3.1.5** 300 Area Waste 5 09/26/1996 Acid Treatment System **4.3.1.6** 303-M Oxide 1 09/26/1996
- Facility
  4.3.1.7 325 Hazardous 4 06/30/1997
  Waste Treatment
  Units



#### 4.3.2 Storage Facilities

- 4.3.2.1
   311 Tanks
   1
   11/16/1987

   4.3.2.2
   303-K Storage Facility
   5
   09/26/1996

   4.3.2.3
   305-B Storage Facility
   1
   12/20/1990
- James Name of the Control of the Con

#### 4.3.3 Disposal Facilities

**4.3.3.1** 300 Area Process 4 05/25/1995 Trenches

#### 4.4 400 AREA FACILITIES

#### 4.4.1 Treatment Facilities

**4.4.1.1** 437 Maintenance 3 09/26/1996 and Storage Facility

# HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC) 4.4.2 Storage Facilities

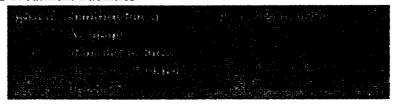


4.4.2.2 Sodium Storage
Facility and
Sodium Reaction
Facility

09/26/1996

#### 4.5 600 AREA FACILITIES

#### 4.5.1 Treatment Facilities



#### 4.5.2 Storage Facilities

4.5.2.1 616 7 03/04/1997
Nonradioactive
Dangerous Waste
Storage Facility

4.5.2.2 600 Area 3 09/11/1998
Purgewater
Storage and
Treatment Facility

#### 4.5.3 Disposal Facilities

4.5.3.1 Nonradioactive 4 06/30/1994
Dangerous Waste
Landfill

#### 4.6 1100 AREA FACILITIES

#### 4.6.1 Treatment Facilities



^{* =} A New Revision Is Pending And Is Not Available Yet.

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### HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION (TOC)

Page 6 of 6

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov Last updated: 12/21/1999 2:51 PM Return to the Hanford home page.

Maintained by FH

Please print or type in the unshaded areas only (fill-in areas are spaced for elife type, i.e. 12 character/inch).

DOE/RL-88-21 305-B Storage Facility

(IIII-III EFGE	S 8/9 5/	paced for elite type, i.	B. 12 character/inch).		Rev. 1, 12/20/90							
FORM 3		DANG	EROUS WASTE PERMIT A	PPLICATION	I. EPA/STATE I.D. NUMBER WA7890008967							
FOR OFF	ICIAL L	JSE ONLY										
APPLICA APPRO		DATE RECEIVED (mo., day, & yr.)		COMMENTS								
				del III. Die.	¥							
II. FIRST	OR RE	VISED APPLICATION	1									
Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.												
A. FIRST APPLICATION (place an "X" below and provide the appropriate date)  1. EXISTING FACILITY (See instructions for definition of "existing" facility.  Complete item below.)												
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B. REVISI	ED APF	PLICATION (place an CILITY HAS AN INTE	"X" below and complete Section I above) RIM STATUS PERMIT	2. FACILITY HA	AS A FINAL PERMIT .							
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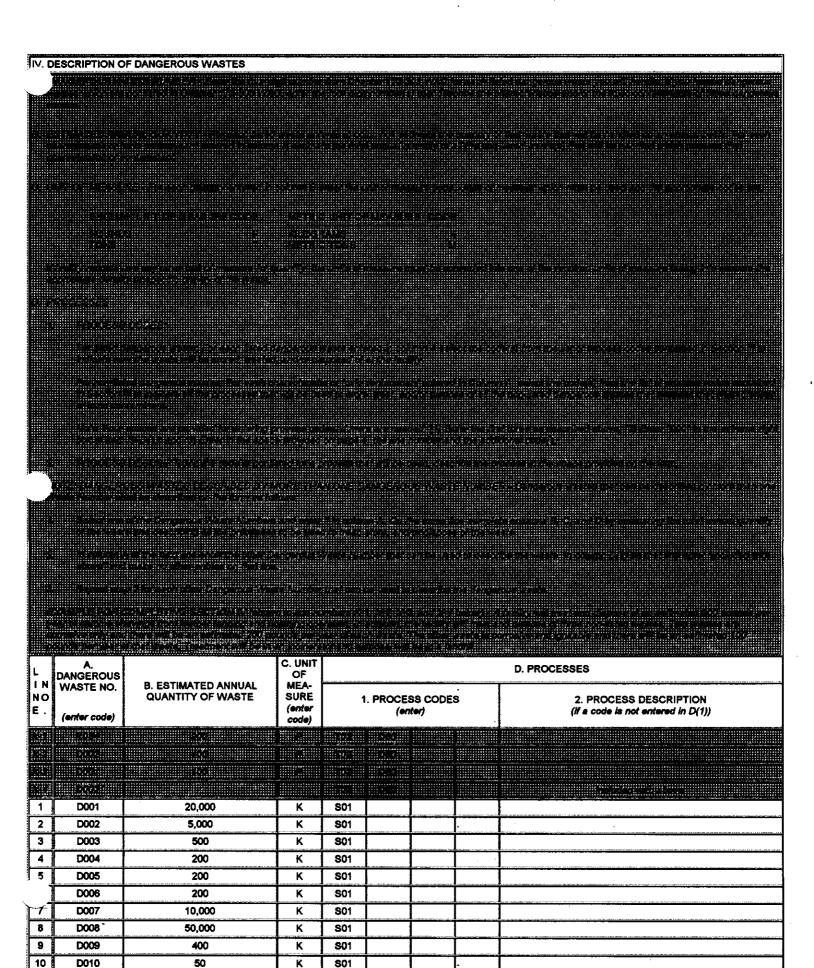
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	A PROCESS	B. PROCESS DESIGN CAPACITY					
	A. PROCESS CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY			
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C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

<u>801</u>

The 305-B Storage Facility is a waste assembly area that services Research and Development operations at the 300 Area satellite storage area. Waste are brought into the facility for storage, repackaging, and/or waste consolidation into mostly 55 gallon drums. The storage design capacity is 30,000 gallons.

RMW is stored as received in storage cells in the basement of the facility. Other wastes are stored in segregated cells in the high bay area



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	ILITY DRAWIN	***************************************						
li exis	ting facilities m	ust include in the space provide	d on page 5 a	scale dra	wing of the fa	cility (see in	structions for more detail).	
I. PHO	OTOGRAPHS	Refer to attached p	hotograp	h(s).				<u> </u>
li exis ture s	ting facilities mu		or around-leve	/) that cles	rly delineate	all existing st	ructures; existing storage, treatment and disp	osal areas; and sites o
				<del></del>	و مامان	- 4b41		
и. ГА	CILIT GEOG	RAPHIC LOCATION This	muomati	on is b	roviaea (	on the at	ached drawing(s) and photogr	aph(s).

LONGITUDE (degrees, minutes, & seconds)

VIII. FACILITY OWNER											
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.     B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:											
1. NAME OF FACI	LITY'S LEGAL OWNER		2. PHONE NO. (eres code & no.)								
3. STREET OR P.O. BOX 4. CITY OR TOWN 5. ST. 6. ZIP CODE											
IX. OWNER CERTIFICATION											
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.											
NAME (print or type)	SIGNATURE	DATE SIG	NED								
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	Edward S. Goldberg	12/20/1990									
X. OPERATOR CERTIFICATION											
I certify under penalty of law that I have personally examined a inquiry of those individuals immediately responsible for obtaining there are significant penalties for submitting false information,	ng the information, i believe that the submitted information is	l attached d s true, accu	locuments, and that based on my irate, and complete. I am aware that								
NAME (print or type)	SIGNATURE	DATE SIG	NED								
SEE ATTACHMENT											

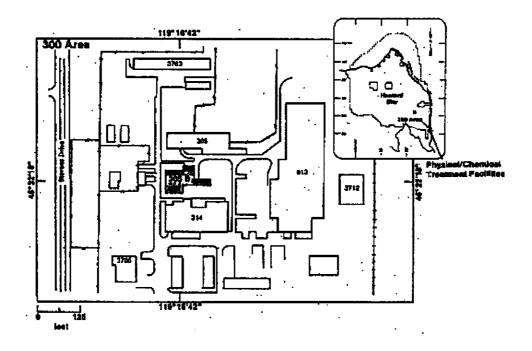
#### X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Edward S. Goldberg	12/20/90	
Owner/Operator	Date	
John D. Wagoner, Manager	•	
U.S. Department of Energy		
Richland Operations Office		
William R. Wiley	12/6/90	
Co-Operator	Date	
William R. Wiley, Director		
Pacific Northwest laboratory		

# 305-B Storage Facility

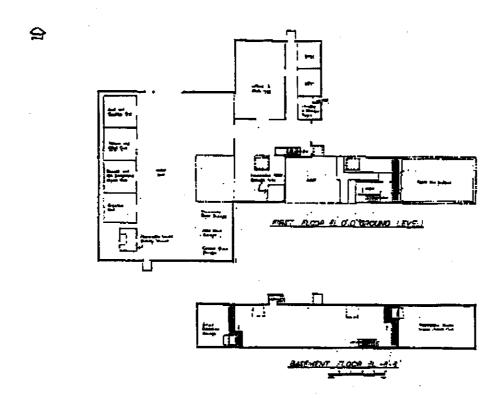
Site Plan



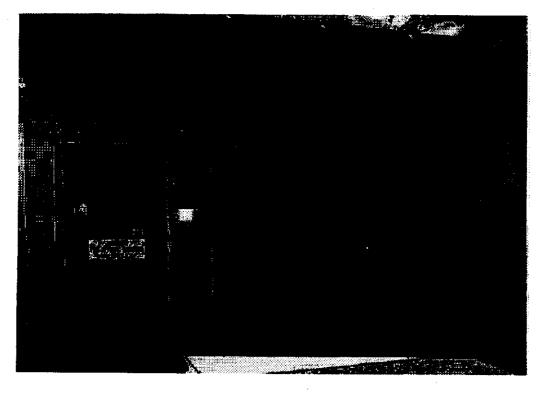
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# 305-B Storage Facility

### Floor Plans



### **305-B STORAGE FACILITY**

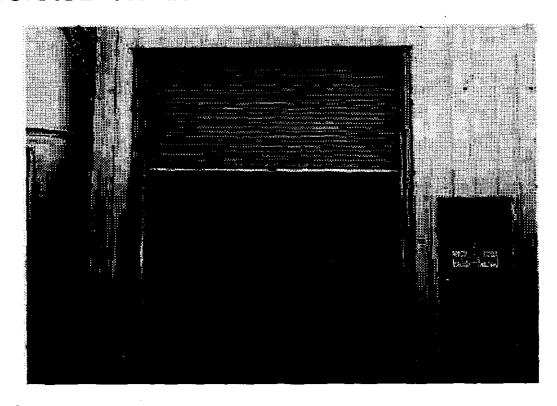


**View Looking West** 

46⁰22'18" 119⁰16'42"

88A907-8CN (PHOTO TAKEN 1988)

## **305-B STORAGE FACILITY**



View Looking South 46°22'18" 119°16'42"

88A907-1CN (PHOTO TAKEN 1988)